

IN THE CLAIMS:

1. (Currently Amended): A method for processing radio waves received at an on-glass antenna of a vehicle, comprising:

detecting wave strength of the radio wave at a running vehicle;

determining whether the wave strength is above a predetermined strength;

calculating change rate of the wave strength when the wave strength is above the predetermined strength; and

controlling amplification of the radio waves received by the on-glass antenna on the basis of the change rate of the wave strength, wherein said controlling of amplification of the radio waves comprises:

determining whether the change rate of the wave strength is above a reference rate that is obtained as a function of the wave strength;

cutting off power supply of an on-glass antenna amplifier for amplifying signals of the on-glass antenna when the change rate of the wave strength is above the reference change rate; and

maintaining power supply of the on-glass antenna amplifier when the change rate of the wave strength is not above the reference change rate.

2. (Original): The method of claim 1, wherein the predetermined strength is about 50dBuV.

3. (Canceled).

4. (Currently Amended): The method of ~~claim 3~~ claim 1, wherein the reference change rate is obtained as a first order function with respect to the wave strength.

5. (Currently Amended): The method of ~~claim 3~~ claim 1, wherein the first order function produces 15 dB/sec at the predetermined strength of the wave strength and 20 dB/sec at the wave strength of 100dBuV.

6. (Currently Amended): An audio system of a vehicle comprising:
an on-glass antenna fixed to a window of a vehicle for receiving radio waves;
an on-glass antenna amplifier for amplifying the signals of the on-glass antenna;
a controller for detecting wave strength of the radio waves in a running state of the vehicle and for controlling the on-glass antenna amplifier on the basis of the wave strength;
and

a tuner for detecting a signal from signals received from the on-glass antenna amplifier,

wherein the controller executes instructions for:

detecting wave strength of the radio waves at a running vehicle;

determining whether the wave strength is above a predetermined strength;

calculating change rate of the wave strength when the wave strength is above the predetermined strength; and

controlling amplification of the radio wave received by the on-glass antenna on the basis of the change rate of the wave strength, wherein the controlling of amplification of the radio wave comprises:

determining whether the change rate of the wave strength is above a reference rate that is obtained as a function of the wave strength;

cutting off power supply of an on-glass antenna amplifier for amplifying signals of the on-glass antenna when the change rate of the wave strength is above the reference change rate; and

maintaining power supply of the on-glass antenna amplifier when the change rate of the wave strength is not above the reference change rate.

7. (Original): The audio system of claim 6, wherein the predetermined strength is about 50dBuV.

8. (Canceled).

9. (Currently Amended): The method of ~~claim 8~~ claim 6, wherein the reference change rate is obtained as a first order function with respect to the wave strength.

10. (Currently Amended): The method of ~~claim 8~~ claim 6, wherein the first order function produces 15 dB/sec at the predetermined strength of the wave strength and 20 dB/sec at the wave strength of 100dBuV.